

$$\begin{array}{ccccccc} 5' \dots \text{ATGCTCTGCAGGAATAC} \dots 3' & \text{PST I} & \xrightarrow{\quad} & 5' \dots \text{ATGCTCTGCA} & 3' & + & 5' \text{GGAATAC} \dots 3' \\ 3' \dots \text{TACGAGACGTCCTTATG} \dots 5' & & & 3' \dots \text{TACGAG} & 5' & & 3' \text{ACGTCCTTATG} \dots 5' \end{array}$$

FIG. 1A

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$$\begin{array}{c} 5' \dots \text{ATGCTCTGCA} \quad 3' \\ 3' \dots \text{TACGAG} \end{array} + \begin{array}{c} 3' \text{ACGTNNT} \text{---} \text{FITC} \quad 5' \\ 5' \end{array} \xrightarrow[\text{DNA}]{\text{T4}} \begin{array}{c} 5' \dots \text{ATGCTCTGCA} \quad 3' \\ 3' \dots \text{TACGAGACGTNNT} \text{---} \text{FITC} \end{array}$$

FIG. 1B

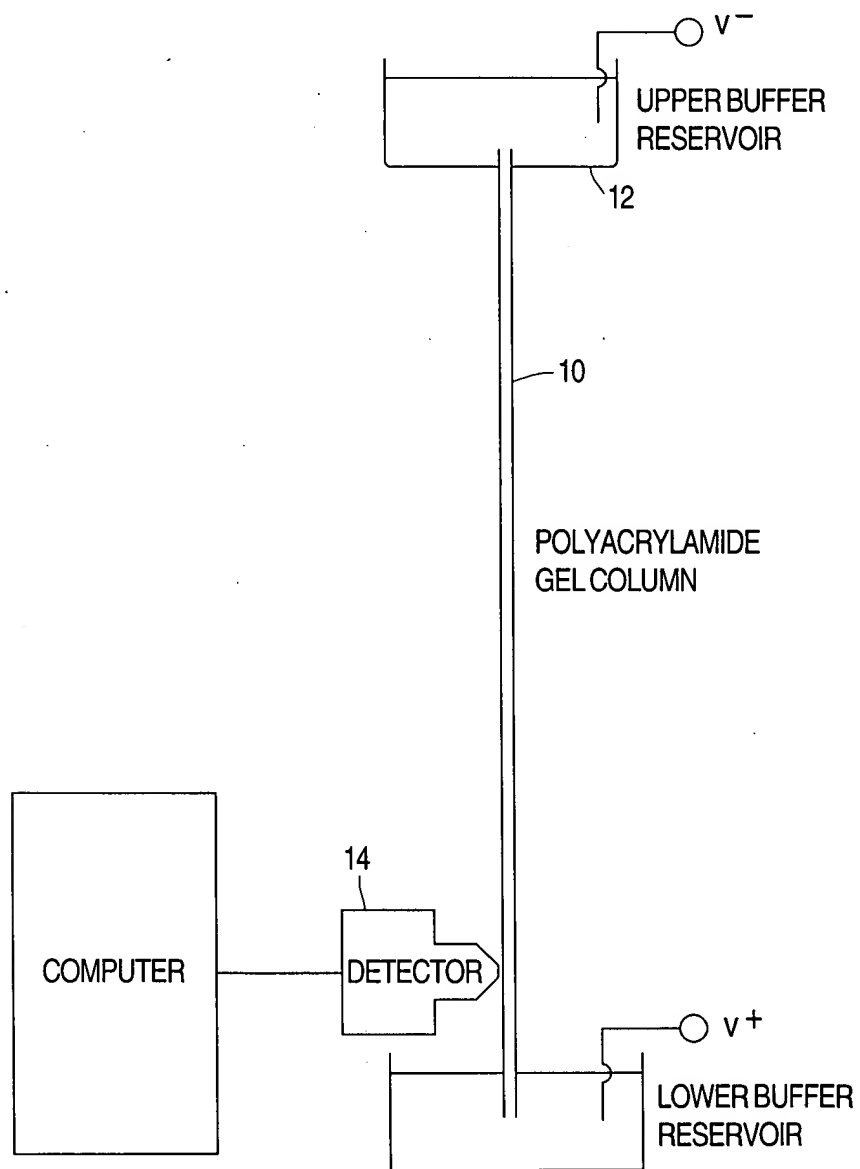
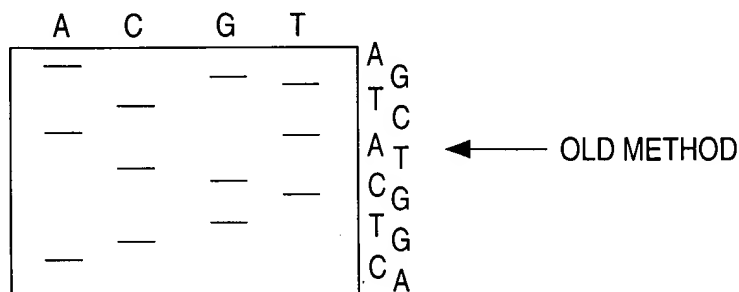


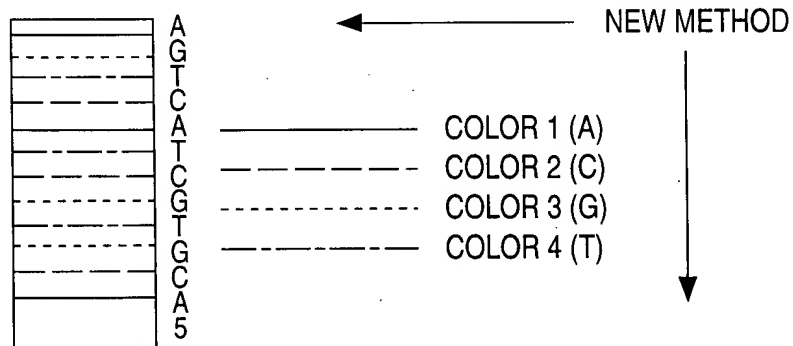
FIG. 2

I) A HYPOTHETICAL DNA SEQUENCE
5' ACGTGCTACTGA 3'

II) IDEALIZED AUTORADIOGRAM OF POLYACRYLAMIDE SLAB GEL
PRODUCED IN CHAIN TERMINATION SEQUENCING ACCORDING TO
THE PRIOR ART



III) IDEALIZED DIAGRAM OF COLORED DNA BANDS ON TUBE ACRYLAMIDE
GEL, PRODUCED ACCORDING TO PRESENT INVENTION



IV) IDEALIZED OUTPUT FROM DETECTION OF COLORED BANDS ON
ABOVE TUBE GEL

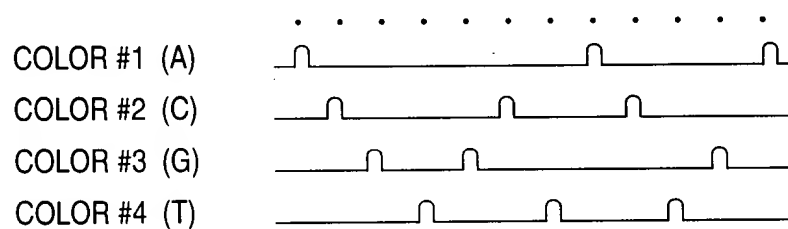


FIG. 3

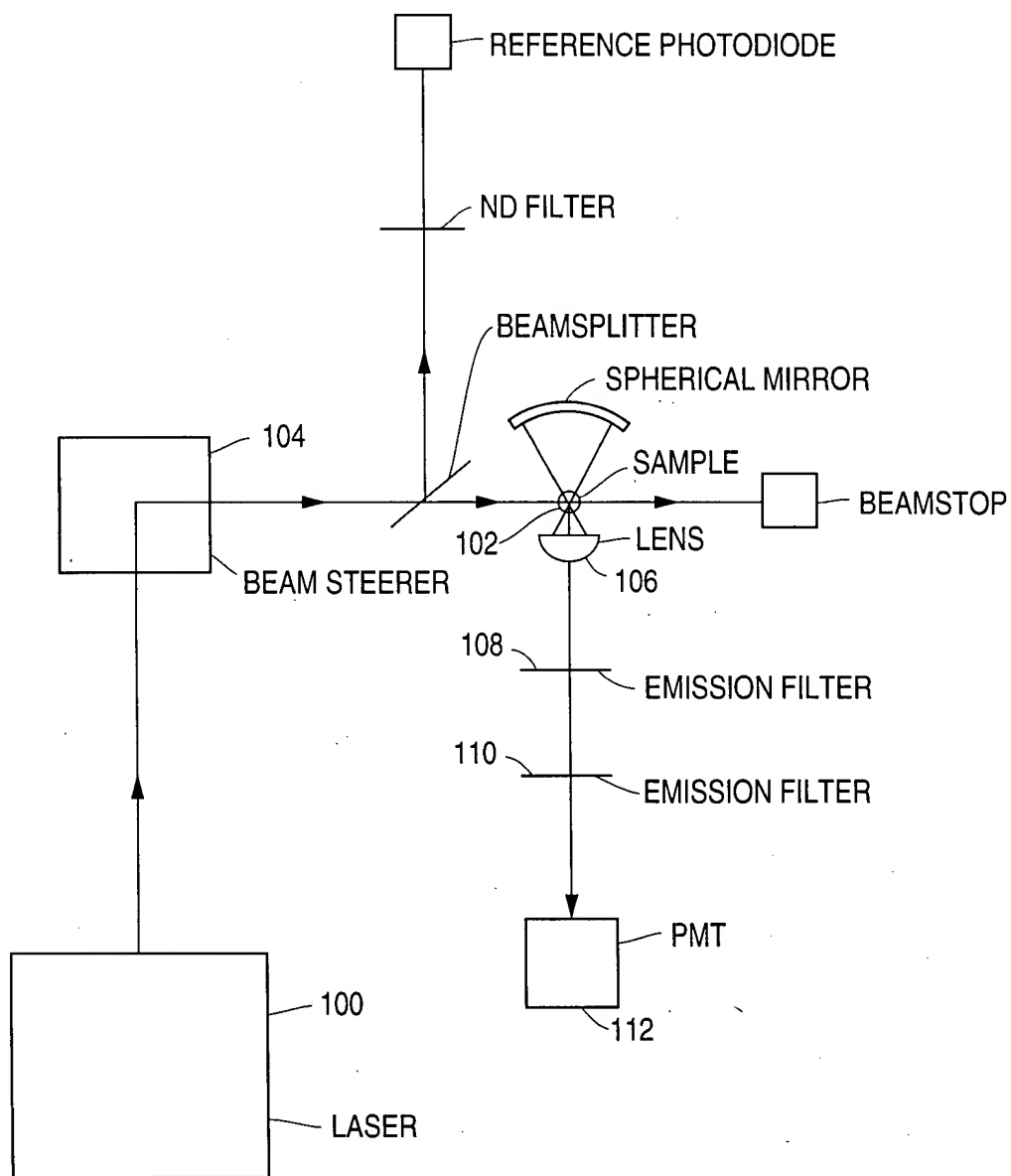


FIG. 4

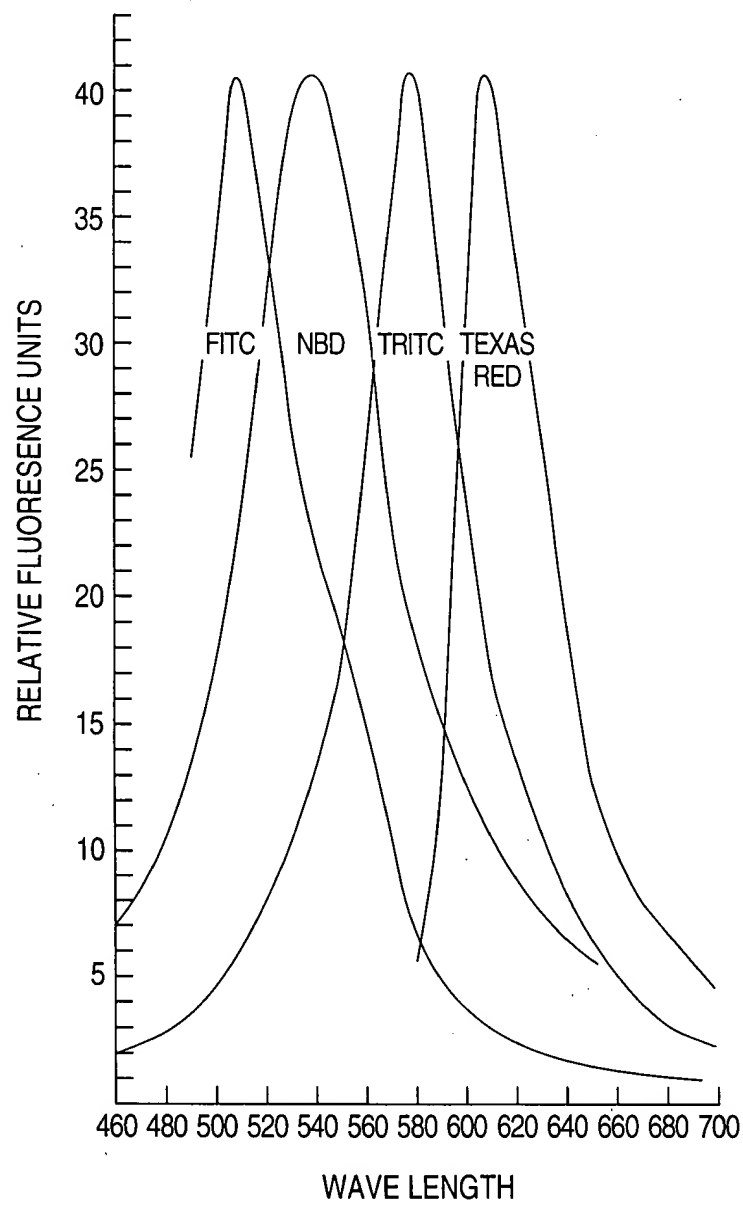


FIG. 5

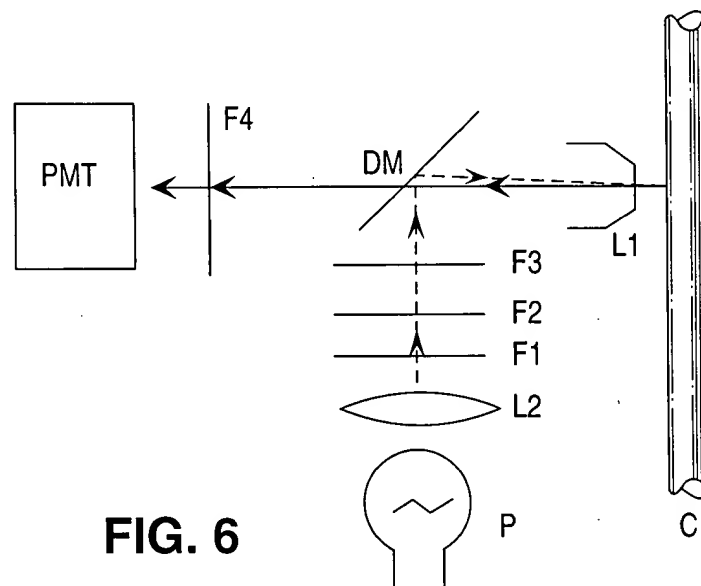


FIG. 6

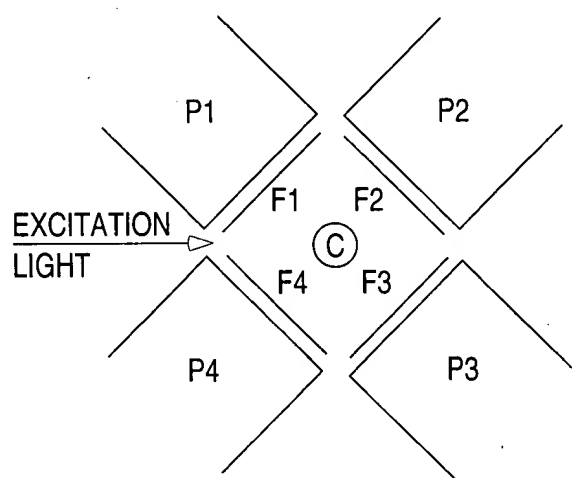


FIG. 7